

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number  
**WO 2004/059441 A3**

(51) International Patent Classification<sup>7</sup>: G01N 31/00

(21) International Application Number:  
PCT/US2003/040974

(22) International Filing Date:  
19 December 2003 (19.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/435,601 20 December 2002 (20.12.2002) US

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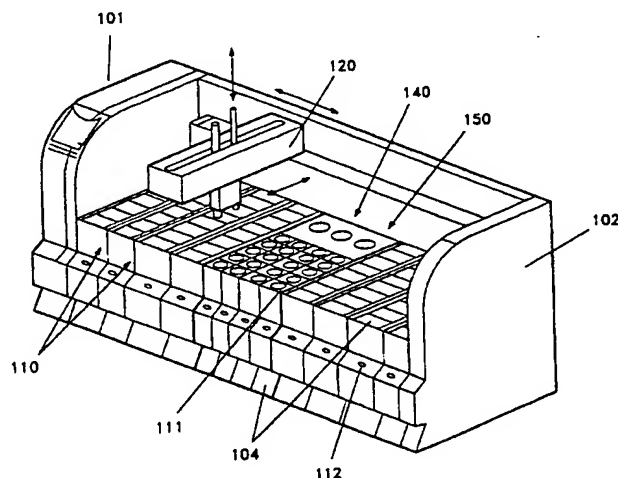
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(81) Designated States (*national*): AE, AG, AL, AM, AT (util-  
ity model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,  
CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE  
(utility model), DE, DK (utility model), DK, DM, DZ, EC,  
EE (utility model), EE, EG, ES, FI (utility model), FI, GB,  
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,  
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,  
MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL,  
PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (util-  
ity model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,  
US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,  
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: INFORMATION NOTIFICATION SAMPLE PROCESSING SYSTEM AND METHODS OF BIOLOGICAL SLIDE  
PROCESSING



(57) Abstract: A sample processing system (101) that may be automated and methods are disclosed where sample(s) (198) are arranged on a carrier element (197) and a process operation control system (171) automatically processes the sample(s) perhaps robotically with an operationally-influential exteriorly-consequential information monitor (402) or a data capture element (414). Significant process details as well as operationally-influential exteriorly-consequential information may be monitored and an automatic notice element (404) may cause notification of a person at some display (415) that may be remote. Various people may be notified, such as an administrator, a supplier, or a manufacturer of an opportunity for some action such as reagent reordering or the like. A simulated motion display may be included to "watch" simulated operation in real time or long after completion of the actual processing.

WO 2004/059441 A3



**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(88) Date of publication of the international search report:**  
20 January 2005

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40974

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 31/00

US CL : 702/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4, 018,565 A (Fletcher, III et al) 19 April 1977 (19.04.1977), Abstract.	26, 40, 41, 68, 82, 83
Y	US 4,404,641 A (Bazarnik) 13 September 1983 (13.09.1983), column 1, line 54 - column 2, line 25.	11, 12, 53, 54
Y	US 4,539,632 A (Hansen et al) 3 September 1985 (03.09.1985), Abstract; column 1, line 59 - column 2, line 28.	29, 32, 71, 74
Y	US 4,886,590 A (Tittle) 12 December 1989 (12.12.1989), column 2, lines 16-38.	15, 33-36, 39, 57, 75-78, 80
Y	US 4,986,891 A (Sarrine et al) 22 January 1991 (22.01.1991), column 8, lines 20-29.	7, 33, 49, 75
Y	US 5,104,527 A (Clinkenbeard) 14 April 1992 (14.04.1992), column 3, lines 26-64.	91-93, 96-98, 128-130, 133-135



Further documents are listed in the continuation of Box C.



See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" documents which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" documents referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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Date of the actual completion of the international search

27 July 2004 (27.07.2004)

Date of mailing of the international search report

22 NOV 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
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## INTERNATIONAL SEARCH REPORT

## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	US 5,316,726 A (Babson et al) 31 May 1994 (31.05.1994), column 2, lines 43-56; column 3, lines 3-6; column 5, lines 9-31; column 6, lines 3-20.	3, 45, 87, 112, 114, 124, 149, 151
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**INTERNATIONAL SEARCH REPORT**

PCT/US03/40974

**Continuation of B. FIELDS SEARCHED Item 1:**

702/19, 21-32, 81-84, 176-178, 182, 184, 185, 187, 188; 700/266, 267; 436/46, 49, 50; 422/63, 67; 340/3.1, 3.3, 3.31, 3.32, 3.9

**Continuation of B. FIELDS SEARCHED Item 3:**

USPAT, US-PGPUB, JPO, DERWENT, EPO, IBM\_TDB

search terms:automatic automated sample process processing preparation, titration, staining, deparaffinization, target retrieval, reagent application, robot, robotic, monitor, alert, notify, alarm, supplier, expiration, historical usage, total reagent, predictive usage, efficacy, segmented computer file, read only file, integral change, common format, proprietary format, software selection, playback